IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Bryan, e	et al.		
Serial No. To Be As Filed: September 25, For: OPTIMIZED EXE		Art Unit:	

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

EURESS MAL CERTIFICATE
PATE OF DEPOSIT EVGGOGGG17US
HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS EXPRESS MAIL "POST OFFICE TO ADDRESSEE"
ON THE ABOVE DATE IN AN ENVELOPE ADDRESSED TO
COMMISSIONER FOR PATENTS, P.O. BOX 1450.
ALEXANDRIA, VIRGINIA 22313-1450.
MAILED BY Clusten Cutte
DATE 9-25-06 11

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

By ______ Date _____

PATENT Case No. 21571P

RELATED APPLICATION

10/594064 PATENT APO1 Rec'd PCT/PTO 25 SEP 2006 INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. 1.98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

U. S. SERIAL NUMBER	FILING DATE	MERCK CASE
If this is inconvenient, additional copies will be submitted upon reque	est.	
6. In accordance with 37 C.F.R. 1.97, (check one)		
the attached information is filed within three months of the filing	date of the captioned case.	
the attached information is filed more than three months after the Office Action on the merits.	e filing date but prior to the n	nailing of a first
the attached information is filed before the mailing of a first Offic examination under §1.114.	e action after the filing of a re	equest for continued
the attached information is being filed more than three months a Office Action on the merits, but before the mailing date of a Fina otherwise closes prosecution in the application. The enclosed a Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p	I Action, Notice of Allowance uthorization is therefore give	e, or an action that
each item of information contained in this Information Disclosure from a foreign patent office in a counterpart foreign application in Statement.		•
each item of information contained in the information disclosure from a foreign patent office in a counterpart application and this designated in §1.56(c) more than thirty days prior to the filing of	communication was not rece	eived by any individual
no item of information contained in this Information Disclosure S foreign patent office in a counterpart foreign application, and, to after making reasonable inquiry, was known to any individual demonths prior to the filing of this Statement.	the knowledge of the person	signing the certification
	Respectfully submitted,	1

By: Alysia A. Finnegan For Applicant(s) **Attorney** Reg. No. 48,878

MERCK & CO., INC. Patent Dept., RY60-30 P.O. Box 2000

Rahway, N.J. 07065-0907

(732)594-2583

Date: September 25, 2006

Approved for use through 09/30/2006. OMB 0651-0031
APO1 Rec'd PCT/PTO SUBSTRUTTE OF LOSB/084 107-06), Information Disclosure Statement by Applicant
Parentimbular demark Office; U.S DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO		COMPLETE IF KNOWN				
I	INFORMATION DISCLOSURE			Application Number	To Be Assigned	
STATEMENT BY APPLICANT				Filing Date	September 25, 2006	
3	IAIEWENIB	I AP	PLICANI	First Named Inventor	Bryan, et al.	
	,			Group Art Unit		
	(use as many sheet	ts as n	ecessary)	Examiner Name		
Sheet	1	of	3	Attorney Docket Number	21571P	

			U.S. PA	ATENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		5,821,087	Y	Lowe, et al.	10/13/1998
"		6,159,729		Hofmann, et al.	12/12/2000
				V	
1					
	·				

			FOREI	GN PATENT	T DOCUMENTS	
Examiner Cit			Foreign Patent Document	t Kind	Name of Patentee or Applicant	Date of Publication of
Initials* No	No.	Office	Number	Code (if known)	of Cited Document	Cited Document MM-DD-YYYY
		PCT	WO 98/34640		Merck & Co., Inc.	08/13/1998
		PCT	WO 99/02694		The University of Queensland	01/21/1999
		PCT	WO 00/09157		Merck & Co., Inc.	02/24/2000
		PCT	WO 01/14416 A2		Merck & Co., Inc.	03/01/2001
		PCT	WO 02/08435 A1		Glaxo Group Limited	01/31/2002
	_	PCT	WO 2004/084831 A2		Merck & Co., Inc.	10/07/2004
		РСТ	WO 2005/032586		Merck & Co., Inc.	04/14/2005
		РСТ	WO 2005/047315		Merck & Co., Inc.	05/26/2006

^{*}Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner Signature

Date Considered

Su	obstitute for form 1449B/PTO			· · · · · · · · · · · · · · · · · · ·	COMPLETE IF KNOWN
	NFORMATION	DIS	CLOSURE	Application Number	To Be Assigned
S	STATEMENT BY APPLICANT			Filing Date	September 25, 2006
3				First Named Inventor	Bryan, et al.
				Group Art Unit	
	(use as many sheets as necessary)			Examiner Name	
Sheet	2	of	3	Attorney Docket Number	21571P

		NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
		Bosch, et al., "The casual relation between human papillomavirus and cervical cancer", J. Clin. Path., Vol. 55, pp. 244-265, 2002.
		Breitburd, et al., "Immunization with Viruslike Particles from Cottontail Rabbit Papillomavirus (CRPV) Can Protect against Experimental CRPV Infection", J. of Virol., Vol. 69, No. 6, June 1995, pp. 3959-3963.
		Chan, et al., "Phylogenetic Analysis of 48 Papillomavirus Types and 28 Subtypes and Variants: a Showcase for the Molecular Evolution of DNA Viruses", Journal of Virology, Vol. 66, No. 10, pp. 5714-5725, 1992.
		Database Accession No. Q05138
		GenBank Accession No. #NC 001592
		Guo, et al., "Signals Sufficient for 3'-End Formation of Yeast mRNA", Mol and Cell Biology, Vol. 16, No. 6, pp. 2772-2776, June 1996.
		Guo, et al., "3'-end-forming signals of yeast mRNA", TIBS 21, pp. 477-481.
		Heidmann, et al., "Flexibility and Interchangeability of Polyadenylation Signals in Saccharomyces cerevisiae", Mol. and Cell Biology, Vol. 14, No. 7, 1994, pp. 4633-4642.
		Henikoff, et al., "Transcription Terminates in Yeast Distal to a Control Sequence", Cell., Vol. 33, June 1983, pp. 607-614.
	,,,,,	Hofmann, et al., "Sequence Determination of Human Papillomavirus Type 6a and Assembly of Virus-Like Particles in Saccharomyces cerevisiae", Virology, Vol. 209, 1995. pp. 506-518.
		Jansen, et al., "Vaccination with yeast-expressed cottontail rabbit papillomavirus (CRPV) virus-like particles protects rabbits from CRPV-induced papillomavirus formation", Vaccine, Vol. 13, No. 16, 1995, pp. 1509-1514.
		Kotula, et al., "Evaluation of Foreign Gene Codon Optimization in Yeast: Expression of a Mouse IG Kappa Chain", Biotechnology, Vol. 9, December 1991, pp. 1386-1389
		Liu, et al., "Polynucleotide viral vaccines: codon optimisation and ubiquitin conjugation enhanced prophylactic and therapeutic efficacy", Vaccine, Vol 20, No. 5-6, 2002, pp. 862-869.
		McMurray, et al., "Biology of human papillomaviruses", J. Exp. Path., Vol. 82, 2001, pp. 15-33
		Neeper, et al., "Expression of the major capsid protein of human papillomavirus type 1 in Saccharomyces cerevisae", Gene, Vol. 180, No. 1-2, pp. 1-6, 1996.

Examiner Signature	Date Considered	

APO1 Rec of Lubrittude for Procession (97-96), Information Disclosure Statement by Applicant Patent and Trademark Office; U.S DEPARTMENT OF COMMERCE

Su	ubstitute for form 1449B/PTO				COMPLETE IF KNOWN	
INFORMATION DISCLOSURE				Application Number	To Be Assigned	
C	TATEMENT BY	A DDY	ICA NIT	Filing Date	September 25, 2006	
3	IAIEWENI DI	APPL	ICANI	First Named Inventor	Bryan, et al.	
				Group Art Unit		
	(use as many sheets	as neces	isary)	Examiner Name		
Sheet	3	of	3	Attorney Docket Number	21571P	

	-	NON PATENT LITERATURE DOCUMENTS
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.
		Russo, et al., "Saccharomyces cerevisiae mRNA 3' End Forming Signals are also Involved in Transcription Termination", Yeast, Vol. 11, 1995, pp. 447-453.
		Schiffman, et al., "Epidemiologic Evidence Showing That Human Papillomavirus Infection Causes Most Cervical Intraepithelial Neoplasia", J. of National Cancer Inst., Vol. 85, Vol 12, 1993, pp. 958-964.
		Schiller, et al., "Papillomavirus-Like Particles: Basic and Applied Studies", UK: Leeds Medical Information, 1996, pp. 101-112.
		Schiller, et al., "Papillomavirus-Like Particle Vaccines", J. Natl. Cancer Inst. Monographs, No. 28, 2000, pp. 50-54.
		Schiller, et al., "Developing HPV virus-like particle vaccines to prevent cervical cancer: a progress report", J. of Clin. Virology., Vol 19, 2000, pp. 67-74.
		Sharp, et al., "Synonymous Codon Usage in Saccharomyces cerevisiae", Yeast, Vol. 7, 1991, pp. 657-678.
		Suzich, et al., "Systemic immunization with papillomavirus L1 protein completely prevents the development of viral mucosal papillomas", PNAS USA, Vol. 92, December 1995, pp. 11553-11557
		Thalenfeld, et al., "oli 1 Transcripts in Wild Type and in a Cytophasmic 'Petite' Mutant of Yeast*", J. of Biol Chem., Vol. 258, No. 23, December 10, 1983, pp. 14065-14065
		Tobery, et al., "Effect of vaccine delivery system on the induction of HPV 16L1-specific humoral and cell-mediated immune responses in immunized rhesus macaques", Vaccine, Vol. 21, 2003, pp. 1539-1547.
		Zaret, et al., "DNA Sequence Required for Efficient Transcription Termination in Yeast", Cell, Vol. 28, March 1982, pp. 563-573.
		Zaret, et al., "Mutationally Altered 3' Ends of Yeast CYC1 mRNA Affect Transcript Stability and Translational Efficiency", J. Mol. Biol., Vol. 176, 1984, pp. 107-135.
		Zhou, et al., "Papillomavirus Capsid Protein Expression Level Depends on the Match Between Codon Usage and tRNA Availability", J. of Virol., Vol. 73, No. 6, June 1999, pp. 4972-4982.
		and tRNA Availability", J. of Virol., Vol. 73, No. 6, June 1999, pp. 4972-4982.

Examiner	Date
Signature	Considered